AuraSys™ L-2

2-/4-Zone Alarm Access Panel

User Manual

Models:

L-2

L-2K

ROSSLARE
SECURITY PRODUCTS

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Notice and Disclaimer

This manual's sole purpose is to assist installers and/or users in the safe and efficient installation and usage of the system and/or product, and/or software described herein.

Before attempting to install and/or use the system, the installer and the user must read this manual and become familiar with all safety requirements and operating procedures.

- The system must not be used for purposes other than those for which it was designed.

- The use of the software associated with the system and/or product, if applicable, is subject to the terms of the license provided as part of the purchase documents.

- ROSSLARE exclusive warranty and liability is limited to the warranty and liability statement provided in an appendix at the end of this document.

- This manual describes the maximum configuration of the system with the maximum number of functions, including future options. Therefore, not all functions described in this manual may be available in the specific system and/or product configuration you purchased.

- Incorrect operation or installation, or failure of the user to effectively maintain the system, relieves the manufacturer (and seller) from all or any responsibility for consequent noncompliance, damage, or injury.

- The text, images and graphics contained in the manual are for the purpose of illustration and reference only.

- All data contained herein subject to change without prior notice.

- In no event shall manufacturer be liable for any special, direct, indirect, incidental, consequential, exemplary or punitive damages (including, without limitation, any and all damages from business interruption, loss of profits or revenue, cost of capital or loss of use of any property or capital or injury).

- All graphics in this manual are for reference only, some deviation between the image(s) and the actual product may occur.

- All wiring diagrams are intended for reference only, the photograph or graphic of the PCB(s) are intended for clearer illustration and understanding of the product and may differ from the actual PCB(s).

1.   Introduction

The AuraSys™ L-2 2/4-zone security system, manufactured by Rosslare, is a compact and advanced zone hardwired control panel for residential and light commercial intrusion alarms.

1.1   System Features

General Attributes

Onboard dual EOL zone inputs (+ tamper detection)	2
Tamper Protection	Back and Front Cover
Zone doubling	Yes
Max. supported zones	4
Onboard PGM output	1 x OC 120 mA
Sounder output	1 x 1 Ampere
Onboard AUX output	+12 VDC 1.0 Ampere
User codes	6 (in L-2K)
Nonvolatile event log size	256
Central station accounts (primary, secondary/backup)	Yes
Private telephone numbers	Yes (3)

For additional details, refer to Chapter 2.

1.2   System Installation

To ensure proper installation of the AuraSys L-2 system, use skilled technicians only who must be familiar with the following:

- General electrical installation procedures
- System specific post-installation setup
- Your specific security requirements

For a complete description of all installation procedures, refer to the AuraSys L-2 Installation Manual.

2.   System Specifications

The following tables provide electrical and mechanical specifications of the security system.

Electrical Characteristics

Power Supply Type	Linear type (recommended)
Input Voltage	16 VAC with 20 VA transformer (14–18 VAC 50/60 Hz range) 24 VDC, 1A (20 to 30 VDC range)
Input Current	Standby – 90 mA Maximum – 258 mA

Battery	BT-05
Type	SLA (Sealed Lead Acid)
Voltage	12 V
Capacity	800 mAh

Battery	BT-16
Type	NiMH (Nickel Metal Hydride)
Voltage	12 V
Capacity	2 Ah

> **Caution**
>
> RISK OF FIRE, EXPLOSION AND BURNING
> - If replaced by incorrect battery type
> - Do not disassemble, expose to excessive heat or incinerate.
> - Dispose used batteries in appropriate container.

Environmental Characteristics

Operating Environment	Indoor use only
Operating Temperature Range	-15°C to 44°C (5°F to 111.2°F)
Operating Humidity Range	0 to 95% (non-condensing)
RFI Protection	> 20 V/m up to 1000 MHz
Supervision	Tamper-proof system with constant supervision

System Specifications

Mechanical Specifications

Dimensions **Height x Width x Depth**	130 x 170 x 38 mm (5.1 x 6.7 x 1.5 in.)
Weight **(without battery)**	250 g (8.8 oz.)

3. Operating the AuraSys L-2 System

3.1 Everyday Operation

The AuraSys L-2 system allows you to ensure the security of your home, featuring basic Disarm and Arm Away options. The system allows you to control attached sub-systems and appliances such as garage doors, lights, heating, and air conditioners via an expandable PGM output.

The two types of panels are:

▪ L-2 – plastic enclosure supplied with a 2-state key switch
▪ L-2K – plastic enclosure supplied with a 6-button keypad for arming and disarming

The following sections describe the typical use of the L-2 system in a home application.

3.2 L-2K User Functions

Table 1 explains the L-2K user functions.

Table 1: L-2K User Functions

Feature	Icon	Description
AWAY		Red When armed Away
Disarm		Green when disarmed and ready to arm
Bypass		Orange when zone(s) bypassed

3.3 Indicators Bar

The AuraSys L-2 system supports a range of operational indicators that can be viewed on the panel's indicators bar.

Figure 1: L-2K Indicators Bar
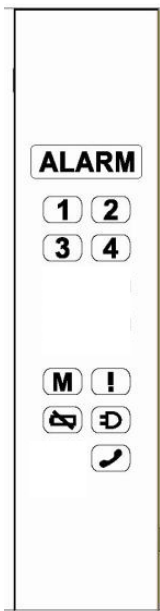
Table 2 describes the indicators that appear on the indicator bar.

Table 2: AuraSys L-2 Indicators Bar

Feature	Icon	Description
ALARM	ALARM	Illuminated label indicating an alarm in the system
Zones	1	4 red illuminated zone number indicators
Alarm in Memory	M	Illuminated shape status indicators for Alarm in Memory
Trouble	!	Illuminated shape trouble indicator
Low Battery	(low battery icon)	Illuminated shape low battery indicator
Power	(power icon)	Illuminated shape power fail indicator
Communication	(phone icon)	Illuminated shape indicating communication failure

3.4   Audible Indicators

The AuraSys L-2 system sounds a range of audible indicators that notify the user of programming or status changes in the system. Table 3 describes the audible indicators.

Table 3: AuraSys L-2 Audible Indicators

Audible Indicator	Description
Key Beeps	Any key press generates a short (150 ms) beep.
Approval Beeps	Keypad valid entry approval is indicated by a sequence of four short beeps.
Wrong Beeps	Invalid or wrong entries are indicated by a single, long beep.
Warning Beeps	In case of a general warning condition, the system sounds 2 short beeps every 1 second.
Error Beep	In case of an error condition due to a wrong entry or system rejection of a command or request, the system sounds a continuous beep of 1 second.
Trouble Beeps	If enabled, the system sounds trouble beeps on a trouble condition. Trouble beeps are a sequence of 3 short beeps, repeating.
Chime Beeps	The system buzzer emits 3 chime sounds configured by the installer.

3.5   Operational Modes

There are two operational modes that are controlled from the L-2 panel:

- Disarmed mode
- Armed mode

The two modes are described in detail below.

3.5.1   Disarmed Mode

In Disarmed mode (Idle mode if it is not in programming or memory/trouble display modes), the indicators behave as follows:

- Memory and trouble indicators are continuously lit or off, according to the status and per their display modes.
- The ALARM indication is off.
- The buzzer generates warning beeps (in trouble conditions) – if trouble beeps are set and in trouble condition – and generates key beeps on keypad operations.

   You can disarm a panel – whether alarmed or not – from the L-2 panel as follows:

   - By using the key switch (L-2)
   - By entering code (L-2K), you can disarm the system.

▪ Once the code entry is approved by the control panel: the Disarm/Ready indicator turns on, the system updates the indicator status, the buzzer emits the acknowledge sound, and the system returns to idle state.

3.5.2   Armed Mode

Zone indicators do not behave in the same way in Armed mode as they do in Disarmed mode.

The system accepts arming requests from the panel when disarmed.

Arming the system through the L-2 is done by toggling between Armed (Away) and Disarmed by entering a code in the L-2K or turning the key in the L-2.

3.6   User Modes

There AuraSys L-2 system supports a single User mode only, in contrast to the L-4 and L-6 models, which support additional modes.

3.6.1   User

A user code is assigned for arming/disarming the system, only. Up to 6 user codes can be assigned.

> Note   All the AuraSys L-2 control panel settings are programmed via the AuraSys Remote Programmer software. For a detailed description of all programming functions, refer to the *AuraSys Remote Programmer Software Manual*.

3.7   Additional Codes (L-2K Only)

The system accepts an additional code for duress. This code is used for disarming the system when it is under threat. However, once entered, the system immediately reports a duress situation (Contact ID) without entering the alarm mode or activating the sounder and outputs.

4.   Using the AuraSys L-2 Security System

This chapter describes the operating conditions for the AuraSys L-2 system. It explains to the user how to place the security system in its various operational modes.

4.1   Alarm Mode

The AuraSys L-2 system enters Alarm mode according to the various events and zone types, defined during system setup.

Upon entering alarm mode, the system:

- Reports events to the central station
- Reports to private telephone numbers
- Activates sounder
- Activates PGM output as programmed
- Uses backup/secondary report options

4.2   Alarm Mode Armed

When armed, the system enters Alarm mode if there is a zone violation, regardless of perimeter or interior type. Upon entering Alarm mode, or when trouble conditions occur, the system performs the following actions as defined at setup:

- Calls central station for reporting
- Performs other reporting (private phone)
- Activates sounder
- Activates PGM output, as defined

The system enters Alarm mode for any intrusion/burglary related event that persists longer than 400 ms. The system enters Trouble mode for any fault event that persists longer than 10 seconds.

The system is considered as armed during entry and exit delay and behaves accordingly, except in the case of a walkthrough.

4.3   Alarm Mode Disarmed

When disarmed, the AuraSys L-2 system enters Alarm mode for each 24-hour zone. Alarms trigger only for panic, emergency, fire, 24-hour audible, and silent conditions.

In this state, the system continuously checks zone status and holds the Ready status parameter. This parameter determines whether the system is ready to arm. The system becomes *Ready to Arm* when zones are either closed or bypassed, or force arming is enabled.

In all other cases, the system status is Not Ready. In the Not Ready condition, the system is unable to arm.

4.4 Arming Options

When the user enters a code or key switch command, the system responds as follows:

- If the code is valid and correctly entered, the arming/disarming operation succeeds.
- In case of a wrong code entry, the system allows you to immediately re-enter the code while also signaling an error indication to the user.
- In the case of 5 sequential wrong code entries, the system ignores further attempts for 30 seconds before accepting a new code entry.

Once armed, the system behaves as follows:

- The system ignores arming commands, except Disarm.
- The system sends error indication signals if zones are either not ready or not bypassed (assuming that a bypass or forced options are not enabled).
- The system exits the Alarm mode if the alarm was caused by an alarm or tamper alarm while the system was disarmed.
- The system enters Alarm mode if zones are violated during entry and exit delay periods, unless the walkthrough feature is enabled and the violated zones are defined as walkthrough path.

4.5 Arming/Disarming the L-2 from the System Panel

The L-2 system allows you to perform arming and disarming functions directly from the system panel.

- The L-2 model features a key switch for arming and disarming the system.
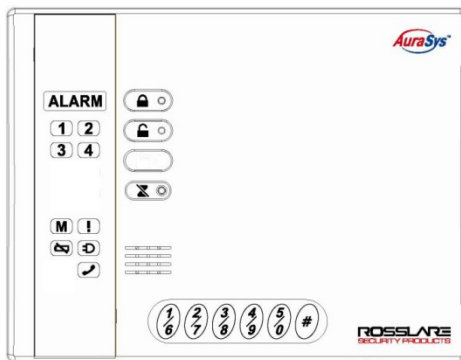
Figure 2: L-2 Control Panel
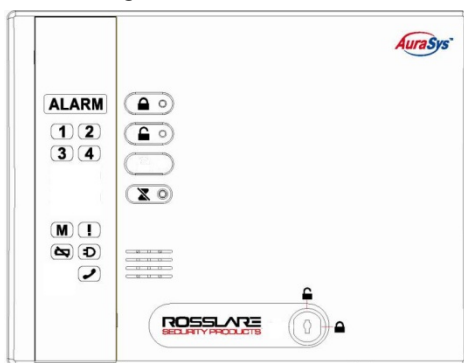
The two operational modes are triggered from the key switch as follows (left to right):

- Disarmed – turn the key to the middle position.

- Arm Away – turn the key to the right position.
- The L-2K model features a keypad, from which you can arm and disarm the system.

Figure 3: L-2K Control Panel

The compact onboard keypad allows you to enter a user code. Enter **#** followed by the code to arm/disarm the system.

4.6   Forced Arming

If Forced Arming is enabled, the system is able to arm when zones are in violation (open) but not defined as bypassed. In such a case, the system treats zones of this type automatically as bypassed zones for the arming period. These bypassed definitions expire either upon disarming or once the zones are closed or supervised (again) during the arming period. Depending on how the feature is defined during setup, a report is sent to the central station. This option is disabled by default.

4.7   Disarming Process

Users can disarm an armed system by entering their code. Disarming causes the system to behave as follows:

- Disarming a system both disarms it and stops an alarm condition.
- Upon receiving a disarm request from the keypad, the system allows up to 45 seconds for an authorized disarm code entry. If it fails to receive a disarm code in this period, the system enters Alarm mode.
- When an alarm condition occurs during the disarming process, the system triggers a full alarm. The alarm stops on next disarming operation.

4.8   Siren

The siren is activated upon alarm, emergency, or violation of a 24-hour zone. The siren timeout is set by the installer and turns off upon disarm command.

The siren also features momentary pulses (squawk) for the following events that can be enabled according to the requirements:

- Arm Away (single pulse)
- Disarm (dual pulse)
- Emergency alarm
- Trouble alert

4.9 Entry/Exit Delay Options

Entry and Exit actions delay the alarm mode and allow the system to ignore zone violations, as described below.

4.9.1 Entry Delay

Entry delay allows a user a grace period for the time it takes to open the door, reach the control panel, and disarm the system.

If a zone of type Delay is violated while the system is armed (except Instant Arming), the system does not enter Alarm mode during the Entry Delay period setting. If the delay has transpired and the system still has not been disarmed, the system enters Alarm mode.

During Entry Delay, the system signals warning beeps at two rates: slower rate and faster rate during the last 10 seconds of the delay period.

The Entry Delay period can be between 3 to 99 seconds and its default value is 45 seconds.

4.9.2 Exit Delay

Exit delay allows the user a grace period for the time it takes to reach the door from the control panel when arming the system upon exit.

When arming a panel, the system ignores zone violations during the Exit Delay period. Once the delay has transpired, the system enters armed mode.

The system may be disarmed during the Exit Delay period.

During Exit Delay the system signals the internal sounder (2) to sound warning beeps at two rates: slower rate and faster rate during the last 10 seconds of the delay period.

The Exit Delay period can be between 3 to 99 seconds and its default value is 60 seconds.

4.10 Entering the Duress Code

The AuraSys L-2K system provides a duress code function that is used to disarm the system when it is under threat. The specific and unique code is defined during installation and given to the user to memorize.

Once entered, the system immediately reports a duress situation (Contact ID) without entering the alarm mode or activating the sounder and outputs. The silent alarm generated acts as an 'Ambush' to report that the user is being forced to disarm the system.

When the system receives a Duress alarm, it sends a Duress Alarm report to the central station and to private phone numbers as defined; however, no alarm is sounded.

A.   Programming Worksheets

There are several programming worksheets in this chapter so the user can set out functional requirements for the Installer. Use these worksheets to create an accurate record of what is done during installation and initial programming.

A.1   Customer Information

Customer: _____

Address: _____

_____

Telephone: _____ Installation Date: _____

A.2   Installer Information

Name: _____

Address: _____

Telephone: _____ Installer's Code: _____

A.3   Device Information

Module	Description	Location

A.4   Zone Worksheet

Zone#	Input Type	Partition	PGM#	Crossing Paired Zone	Response Time (in100ms)	Chime	Alarm Verification	PGM Activation on Zone Violation	No-Activity Monitor-in	Zone Crossing/ Walk-through
01										
02										
03										
04										

B.   Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at www.rosslaresecurity.com.

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

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